## Index of Claims

| App | lication | No. |
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09/842,694

Examiner

Applicant(s)

KOBAYASHI ET AL.

Art Unit

Johannes P Mondt

2826

| √  | Rejected |   |
|----|----------|---|
| l_ | Allowed  | ı |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N  | Non-Elected  |
|----|--------------|
| Γ. | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | aim      | Date          |          |           |               |               |          | Claim Date |          |          |          |          |          |          | ]             | CI       | aim      | Date         |         |         |     |           |            |          |               |          |               |            |          |          |               |          |
|----------|----------|---------------|----------|-----------|---------------|---------------|----------|------------|----------|----------|----------|----------|----------|----------|---------------|----------|----------|--------------|---------|---------|-----|-----------|------------|----------|---------------|----------|---------------|------------|----------|----------|---------------|----------|
|          | Γ        | _             | $\neg$   | Т         |               | Г             | Г        | Г          | Г        |          |          | T        | Т        |          |               |          |          | Т            | Т       | Т       | -   |           |            |          | П             | $\neg$   | П             |            |          | П        |               | Г        |
| <u></u>  | ig.      | 18            | - [      |           |               |               |          |            |          |          | - CO     | i.a      |          |          |               |          | - 1      |              |         |         | ١.  | <u>10</u> | <u>a</u> . |          |               |          | ıl            |            |          |          |               | į        |
| Final    | Original | 12/26/03      |          |           |               |               |          |            |          |          | Final    | Original |          |          |               |          | - [      |              |         |         |     | Final     | Original   |          |               | - 1      | ıl            |            |          |          |               | İ        |
| -        | 0        | =             |          |           |               |               |          |            |          |          | -        | 0        | l        | ١,       |               | - 1      | - 1      |              |         |         | 1.  | _         | 0          |          |               | - 1      | ıl            |            |          | H        | 1             | ĺ        |
|          | 1        | v             | _        | $\forall$ | _             | -             | _        | -          |          |          | -        | 51       | $\vdash$ | П        | $\Box$        | _        | $\neg$   | $\top$       | $^{+}$  | +       | ١.  |           | 101        |          | $\neg$        | $\dashv$ | $\vdash$      | $\neg$     | Н        | П        | г             |          |
|          | 2        | v             | $\dashv$ | 7         | $\neg$        |               |          | Н          |          |          |          | 52       | T        |          |               | -        | _        | _            |         | ┪~      | 1   |           | 102        | Н        | -             | $\neg$   | $\neg$        | -          | -        |          |               | г        |
|          | 3        | v             | $\neg$   | 7         | $\neg$        |               | Н        |            | т        |          |          | 53       | -        | H        |               | _        |          | -†           | -       | _       | 1.  |           | 103        |          | -             | -        | $\dashv$      | _          | _        | Н        | _             | Н        |
|          | 4        |               |          | +         | -             |               |          | -          | +-       |          |          | 54       | -        | Н        |               | $\dashv$ | $\dashv$ | $\dashv$     | +       | +       | 1   | _         | 104        | -        | $\dashv$      | $\dashv$ | $\dashv$      |            | Н        | Н        | $\overline{}$ | т        |
|          | \$       | Н             | _        | +         | 一             |               | t        | $\vdash$   | t        | $\neg$   |          | 55       |          | Н        | $\forall$     | $\dashv$ | $\dashv$ | $\dashv$     | +       | +-      | 1 . |           | 105        | Н        | $\dashv$      | $\dashv$ | $\dashv$      | $\neg$     |          |          | $\overline{}$ | _        |
|          | 1        |               | _        | 寸         | $\neg$        |               | <u> </u> |            | t        | $\neg$   |          | 56       |          | Н        |               | 7        |          |              | +       | +-      | 1   |           | 106        |          | $\dashv$      | 7        | $\neg$        | $\neg$     |          | П        | _             | Ь.       |
|          | 7        | v             | _        | 寸         |               |               |          | <u> </u>   |          | _        |          | 57       | $\vdash$ | -        |               | -        | $\neg$   | $\dashv$     | $^{+}$  | +       | 1   |           | 107        |          |               | _        | $\dashv$      | $\neg$     |          | П        | П             | Н        |
| -        | 8        | v             |          | 7         | 寸             | $\overline{}$ | ┢        |            | ┪        | $\dashv$ |          | 58       |          | Н        | 1             | _        | _        | $\dashv$     | +       | +       | 1   |           | 108        | Н        | $\dashv$      | $\dashv$ | $\dashv$      | $\neg$     |          | П        |               | _        |
|          | 9        | v             | _        | +         | ┪             | _             | $\vdash$ | $\vdash$   | -        |          |          | 59       |          | Н        | $\dashv$      | $\dashv$ | _        | $^{\dagger}$ | +       | +       | 1   | _         | 109        | Н        | $\dashv$      | 7        | $\dashv$      | $\dashv$   |          | Н        |               | _        |
|          | 10       | v             | $\neg$   | $^{+}$    | $\dashv$      |               |          | $\vdash$   | Н        | - 1      |          | 60       | H        |          | -             | -        | -        | 十            | -       | +       | 1   |           | 110        | Н        | +             | +        | $\dashv$      | Н          |          | $\vdash$ | Н             |          |
|          | 11       | v             | -+       | $^{+}$    | $\dashv$      |               |          | -          | -        | $\dashv$ |          | 61       | 1        | Н        | $\vdash$      | _        | $\dashv$ | +            | +       | +       |     |           | 111        | Н        | $\dashv$      | $\dashv$ | $\dashv$      | $\dashv$   | H        | $\vdash$ | $\vdash$      | -        |
|          | 12       | H             | -        | +         | -             |               | _        | $\vdash$   | -        | _        | -        | 62       | $\vdash$ | Н        | $\forall$     | $\dashv$ | $\dashv$ | $\dashv$     | $^{+}$  | +       | - 5 |           | 112        | Н        | $\dashv$      | $\dashv$ | $\dashv$      | $\dashv$   | Н        | Н        | $\vdash$      | _        |
|          | 13       | $\vdash$      | +        | +         | $\dashv$      |               |          | $\vdash$   | $\vdash$ | -        |          | 63       | 1        | Н        | $\dashv$      | -        | -+       | +            | +       | +       | 1   |           | 113        | -        | -             | +        | $\dashv$      | -          | -        | Н        | $\dashv$      |          |
| -        | 14       | -             | -+-      | +         |               |               | -        | -          | Η-       | $\dashv$ | $\vdash$ | 64       | $\vdash$ | $\vdash$ | $\dashv$      | $\dashv$ | $\dashv$ | +            | +       | +-      | -   | _         | 114        | $\vdash$ | +             | $\dashv$ | $\dashv$      | $\dashv$   | Н        | Н        |               | -        |
| $\vdash$ | 15       | $\vdash$      | +        | +         | +             | Н             | $\vdash$ | -          |          | $\dashv$ |          | 65       | Н        | $\vdash$ | $\dashv$      | $\dashv$ | $\dashv$ | +            | +       | ╁       | 1.  |           | 115        | Н        | $\dashv$      | $\dashv$ | $\dashv$      | $\dashv$   | Н        | $\vdash$ | _             | _        |
|          | 16       | $\dashv$      | +        | +         | _             |               | $\vdash$ | $\vdash$   | $\vdash$ | _        | $\vdash$ | 66       | ├        | -        | -+            | -+       | $\dashv$ | +            | +       | +       |     |           | 116        | Н        | -+            | $\dashv$ | -             | -          | Н        | $\vdash$ | _             | Н        |
| $\vdash$ | 17       | $\vdash$      | +        | +         | $\dashv$      | Н             | $\vdash$ | -          | -        |          | -        | 67       | $\vdash$ | $\vdash$ | -             | $\dashv$ | -        | +            | +       | +       | . * | <b></b> - | 117        | Н        | -+            | $\dashv$ | $\dashv$      | $\dashv$   | Н        | $\vdash$ | -             | Н        |
| $\vdash$ | 18       | $\dashv$      | $\pm$    | +         | -             |               | $\vdash$ |            | $\vdash$ |          | -        | 68       | ┢        | $\dashv$ | +             | $\dashv$ | +        | +            | +       | +       | 1   |           | 118        | $\vdash$ | -+            | -        | -             | $\dashv$   | Н        | $\dashv$ | -             | $\vdash$ |
| -        | 19       | $\dashv$      | -+-      | +         | -+            | _             | -        | -          | -        | -        | $\vdash$ | 69       | $\vdash$ | $\dashv$ | $\dashv$      | $\dashv$ | +        | +            | +       | +-      | 1   |           | 119        | Н        | $\dashv$      | $\dashv$ | $\dashv$      | -          | Н        | $\dashv$ | -             | _        |
| -        | 20       | -             |          | -+        |               |               | $\vdash$ | Н          |          |          | -        | 70       | $\vdash$ | $\dashv$ | -+            | $\dashv$ | -        | -+           |         | +       | 1   |           | 120        | $\dashv$ | $\dashv$      | $\dashv$ | _             | -          |          | $\dashv$ |               | -        |
| $\vdash$ | 21       | -             |          | +         | $\dashv$      | -             | -        | -          | -        | - 1      | $\vdash$ | 71       | Н        | $\dashv$ | $\dashv$      | +        | $\dashv$ | +            |         |         | 1   |           | 121        | $\dashv$ | -             | $\dashv$ | $\dashv$      | $\dashv$   | Н        | -        | -             | _        |
|          | 22       | -             | +        | +         | $\dashv$      | -             | Н        | Н          | Н        |          | $\vdash$ | 72       | -        |          | -             | +        | -        | +            | +       | +       |     |           | 122        | $\dashv$ | $\dashv$      | $\dashv$ | -             | -          | Н        | $\dashv$ | $\dashv$      | _        |
| $\vdash$ | 23       | +             | +        | +         | $\dashv$      | -             | Н        |            | -        | $\dashv$ |          | 73       | Н        | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ | +            | +       | +       | 1   |           | 123        | -        |               | -        | $\dashv$      | $\dashv$   | Н        | $\dashv$ | $\dashv$      | _        |
| $\vdash$ | 24       | -             | +        | +         | $\dashv$      | $\dashv$      | Н        |            | -        | -        | $\vdash$ | 74       | Н        | $\vdash$ | $\dashv$      | $\dashv$ | $\dashv$ | +            | +       | ┰       |     |           | 124        | -        |               | +        | $\dashv$      | $\dashv$   |          | $\dashv$ | -             |          |
|          | 25       |               |          | +         | $\dashv$      | -             |          |            | Н        | $\dashv$ | $\vdash$ | 75       | -        | -        | -+            | -        | -        | +            | +       | +       |     |           | 125        | $\dashv$ | +             | +        | +             | -          |          | $\dashv$ | -             |          |
|          | 26       | $\rightarrow$ | +        | +         | $\dashv$      | -             |          |            | -        | $\dashv$ | .        | 76       | Н        | $\vdash$ | $\dashv$      | $\dashv$ | $\dashv$ | +            | +       | +       | 1   |           | 126        | $\dashv$ | -+            | +        | -             | -          | $\vdash$ | $\dashv$ | -1            | _        |
| $\vdash$ | 27       | $\dashv$      | +        | +         | $\dashv$      | _             |          |            |          |          | $\vdash$ | 77       | Н        | $\vdash$ | $\rightarrow$ | $\dashv$ | +        | +            | +       | +-      |     |           | 127        |          | -+            | $\dashv$ | -             | -          | $\vdash$ | -        |               | _        |
| $\vdash$ | 28       | -             | -        |           | 4             |               |          |            | Н        | -        | $\vdash$ | 78       | ₽        | -        | -+            | -+       | -1       |              | +       | +       |     |           | 128        | $\vdash$ | -             | $\dashv$ | $\rightarrow$ | -          |          |          | $\dashv$      |          |
| $\vdash$ | 29       | -             | -        | +         | -             | -             | _        |            |          |          | +        | 79       | $\vdash$ | -        | -             | -+       |          | -            | +       | +       | 1   | _         | 128        | $\vdash$ | $\rightarrow$ | +        | -+            |            | -        | -        | 4             |          |
|          | 30       | $\vdash$      | +        | +         | -             | -             |          |            |          | -        |          |          | ļ        | $\dashv$ | -             | +        | +        | +            | +       | +       |     |           | 130        | $\vdash$ | -             | +        | -             | _          | Н        | 4        | $\dashv$      | _        |
| $\vdash$ | 31       | $\vdash$      | +        | +         | $\rightarrow$ | _             |          | _          |          |          |          | 80       | Н        | $\dashv$ | -             | -        |          | 4            |         |         |     |           |            | _        |               | -        | 4             | -          |          | -        | -             | _        |
| $\vdash$ | 32       | $\vdash$      | -        | +         | $\dashv$      | $\dashv$      |          |            | _        |          | $\vdash$ | 81<br>82 | Н        | $\dashv$ | -             | -        | 4        | 4            |         |         |     | _         | 131        | _        | -             | -        | _             | _          |          | $\dashv$ | _             | _        |
| $\vdash$ | 33       |               |          | +         | -             | $\dashv$      |          |            |          | -        | $\vdash$ |          | Н        | $\dashv$ |               | -        | +        | +            | +       | +       |     |           | 132        | Н        | $\dashv$      | $\dashv$ | -             | 4          | 1        | $\dashv$ | $\dashv$      | _        |
|          | 34       | $\vdash$      | -        | +         | $\dashv$      | $\dashv$      |          | _          |          | _        |          | 83       | Н        | $\dashv$ | -             | -        | +        | +            | -       | +-      |     |           | 133        | -        |               | 4        |               | _          | $\dashv$ | $\dashv$ |               | _        |
| $\vdash$ |          | $\rightarrow$ | +        | +         | -             | $\dashv$      |          |            | _        | -        | $\vdash$ | 84       | Н        | $\dashv$ | +             | +        | +        | -            |         |         |     |           | 134        | Н        | -             | +        | -             | -          |          | -        |               |          |
| $\vdash$ | 35       |               | +        | +         | 4             | $\dashv$      |          | $\vdash$   | Н        | $\dashv$ | $\vdash$ | 85       | $\vdash$ |          |               | +        | $\dashv$ | +            | +       | +       |     |           | 135        | -        | +             | $\dashv$ | $\dashv$      | -          |          | $\dashv$ | 4             | $\dashv$ |
| $\vdash$ | 36       | +             | +        | +         | +             |               |          |            | -        |          | $\vdash$ | 86       | Н        | $\dashv$ | +             | -+       | -        | +            | +-      | 4-      |     |           | 136        | -        | -             | 4        |               | 4          | $\dashv$ | -        | -             | _        |
| $\vdash$ | 37       | $\dashv$      | 4        | 4         | 4             | 4             |          |            | Ш        | _        | $\vdash$ | 87       | Н        |          | 4             |          | -        | +            | +       | 1       | 1   |           | 137        |          | -+            | 4        | -             | _          | Н        | -4       | 4             | $\dashv$ |
| $\vdash$ | 38       | $\dashv$      | +        | +         | 4             | _             |          | Щ          | Ш        | -        | $\vdash$ | 88       | Н        | 4        | $\rightarrow$ | +        | -        | 4            | 4       | 4       |     |           | 138        | _        | +             | 4        | -             | _          | $\Box$   | 4        | -             | ᆈ        |
| $\vdash$ | 39       |               | - -      | 4         | -             | _             |          | Ш          | Ш        | _        | $\vdash$ | 89       | Ш        |          | -+            | -        | -        | 4            | +       | +       |     |           | 139        |          | -             | 4        |               | _          | 4        | _        | 4             | _        |
| $\vdash$ | 40       | -             | -        | 4         | 4             | _             |          | $\Box$     | Ш        | -        | $\vdash$ | 90       | Ш        | _        | _             | 4        | $\perp$  | $\perp$      | +       | +       |     |           | 140        | _        | 4             | 4        | 4             |            | _        | _        | _             | _        |
|          | 41       | _             | +        | +         | 4             | _             |          | _          | Ш        | _        | $\vdash$ | 91       |          | _        | _             | 4        | 4        | 4            | $\bot$  | 1       |     |           | 141        | 4        | 4             | 4        | 4             |            | _        | _        | _             |          |
|          | 42       | _             | $\perp$  | 4         | 4             | _             |          | _          | Ш        |          |          | 92       | Ш        | _        | _             | $\perp$  | _        | $\perp$      | _       | 1_      |     |           | 142        | _        | $\perp$       | 4        | _             |            |          |          |               | _]       |
| $\vdash$ | 43       | _             | $\perp$  | 4         | 4             | _             |          | _          | Ш        | _        |          | 93       |          | _        | 4             | 4        | 4        | 4            | 4       | 1       |     |           | 143        | _        | 4             | 4        | _             | _          |          | _        | _             |          |
| $\sqcup$ | 44       | _             | $\perp$  | 4         | 4             | _             |          | _          | $\Box$   | _        | $\vdash$ | 94       | Ш        | _        | _             | 4        | 4        | 4            | 4       | 4       |     |           | 144        | _        | 4             | 4        | _             | Ц          |          |          | $\Box$        |          |
|          | 45       | 4             | 4        | 4         | 4             | _             | _        | _          |          | _        | Ш        | 95       | Щ        | _        | 4             |          | _        | _            | 1       |         |     |           | 145        |          | _             | 4        | _[            | ╝          |          |          | $\perp$       | _]       |
| $\sqcup$ | 46       | _             | $\perp$  | 4         | 4             | _             | _        | _          |          | _        | $\sqcup$ | 96       | Ц        | _        | 4             |          | 4        | 1            | _       | 1       |     |           | 146        |          | _[            | 4        | $\perp$       | $\Box$     |          |          | $\Box$        |          |
| $\sqcup$ | 47       | 4             | _        | 4         | 4             | _             |          | _          | _        | _        | $\sqcup$ | 97       | Ш        | _        | $\perp$       | 4        | _        | _            | $\perp$ | $\perp$ |     |           | 147        | _        | 4             | _        | _1            | $\Box$     |          |          |               |          |
| <b></b>  | 48       | _             | _        | 1         | _             |               |          | _          |          | _        |          | 98       | Ш        |          | 4             |          | $\perp$  | $\perp$      | $\perp$ | $\perp$ | [   |           | 148        | [        |               | $\perp$  | $\perp$       | $_{\perp}$ | _I       | ┚        | _]            |          |
| <b></b>  | 49       | _             | _        | 1         |               | $\Box$        |          | _          | _        | _        | $\sqcup$ | 99       | Ш        |          | _[            | _[       | 4        | 1            | Ţ       | 1       | ا ا |           | 149        | [        | _             | _        | $\Box$        | $_{ m I}$  | $\Box$   | J        |               | ┚        |
| $\Box$   | 50       | $\perp$       |          |           |               |               |          |            |          |          | L. I     | 100      | Ш        |          |               |          |          |              |         | 1       |     |           | 150        |          |               | $\perp$  | . [           |            | T        | T        | T             | -1       |